

**ATTACHMENT B**  
**Amendments to the Claims**

*This listing of claims will replace all prior versions, and listings, of claims in the application.*

1. (Currently Amended) A high voltage transformer for a microwave oven, said transformer including a core and primary and secondary coils, and further comprising:  
an insulation molding part entirely enclosing ~~at least a part of~~ said secondary coil and including a sensor accommodating portion provided separately from the core; and  
a temperature sensor, accommodated in said sensor accommodating portion, for detecting the temperature of the secondary coil, said temperature sensor being exposed on one side thereof to said secondary coil but being otherwise completely enclosed within said sensor accommodating portion of said insulation molding part.
2. (Original) The high voltage transformer according to claim 1, wherein said sensor accommodating portion is disposed inside of said insulating molding part.
3. (Original) The high voltage transformer according to claim 2, wherein said sensor is disposed directed adjacent to said secondary coil inside of said insulating molding part.
4. (Original) The high voltage transformer according to claim 2, wherein said temperature sensor comprises one of a thermostat and a thermistor.
5. (Previously Presented) The high voltage transformer according to claim 1, wherein said sensor accommodating portion is of a shape permitting said temperature sensor to be put into said sensor accommodating portion.
6. (Canceled)

7. (Original) The high voltage transformer according to claim 4, wherein said temperature sensor comprises one of a thermostat, a thermistor and a fuse.

8-15. (Canceled)

16. (Currently Amended) A microwave oven including a housing, a cooking chamber within said housing, an electronic component compartment within said housing, a door for said cooking chamber, and a control panel installed within said housing in front of said electronic compartment, said electronic component compartment including a high voltage transformer for generating a high voltage when the microwave oven is supplied with power from a power supply, a high voltage capacitor which is charged to a high voltage by the high voltage transformer, and a magnetron for generating microwaves and radiating the microwaves into the cooking chamber when discharge of the high voltage capacitor supplies the magnetron with a high voltage, said high voltage transformer including a core and primary and second coils, and further comprising:

an insulating molding part entirely enclosing ~~at least a part of~~ said secondary coil and including a sensor accommodating portion provided separately from the core; and

a temperature sensor, accommodated in said sensor accommodating portion, for detecting the temperature of the secondary coil, said temperature sensor being exposed on one said thereof to said secondary coil but being otherwise completely enclosed within said sensor accommodating portion of said insulating molding part, and said temperature sensor and said secondary coil being molded together by said insulating molding part to form an integral unit.